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**BASIC IMAGERY
INTERPRETATION
REPORT**

**FRYAZINO SCIENTIFIC RESEARCH
INSTITUTE AND PLANT 160**

25X1A

COMM/ELEC/RADAR R&D FACILITIES

USSR

JUNE 1970

Declass Review by NIMA/DOD

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Fryazino Scientific Research Institute and Plant 160

UR

25X1A UTM COORDINATES

NA

GEOGRAPHIC COORDINATES

55-58-01N 038-03-05E

MAP REFERENCE

ACIC. USATC, Series 200, Sheet 0167-5, scale 1:200,000

25X1D

ABSTRACT

Fryazino Scientific Research Institute and Plant 160 is one of the major electronic research, development, and production complexes in the USSR. The complex consists of 20 major structures, 30 smaller buildings, and 23 utility buildings. An associated area adjacent to the main facility contains five major buildings and 15 smaller buildings. The complex and the associated area are enclosed by a security fence/wall with road and rail entrances.

This report provides a basic description, a chronology, an annotated photograph, a line drawing, and mensural data on the installation.

INTRODUCTION

Fryazino Scientific Research Institute and Plant 160 (Figure 1) is located on the northern edge of Fryazino, approximately 12 nautical miles (nm) northeast of Moscow. Moscow/Shchelkovo Airfield [redacted] is located approximately 4.5 nm to the south.

The institute incorporates an area of 314 acres and is a combined production and research facility. It is probably responsible for the design and development of electronic tubes and instruments applicable to commercial, military, and scientific programs. The institute is probably subordinate to the Ministry of the Radio Technical Industry and is one of the major electronic research, development, and production complexes in the USSR.

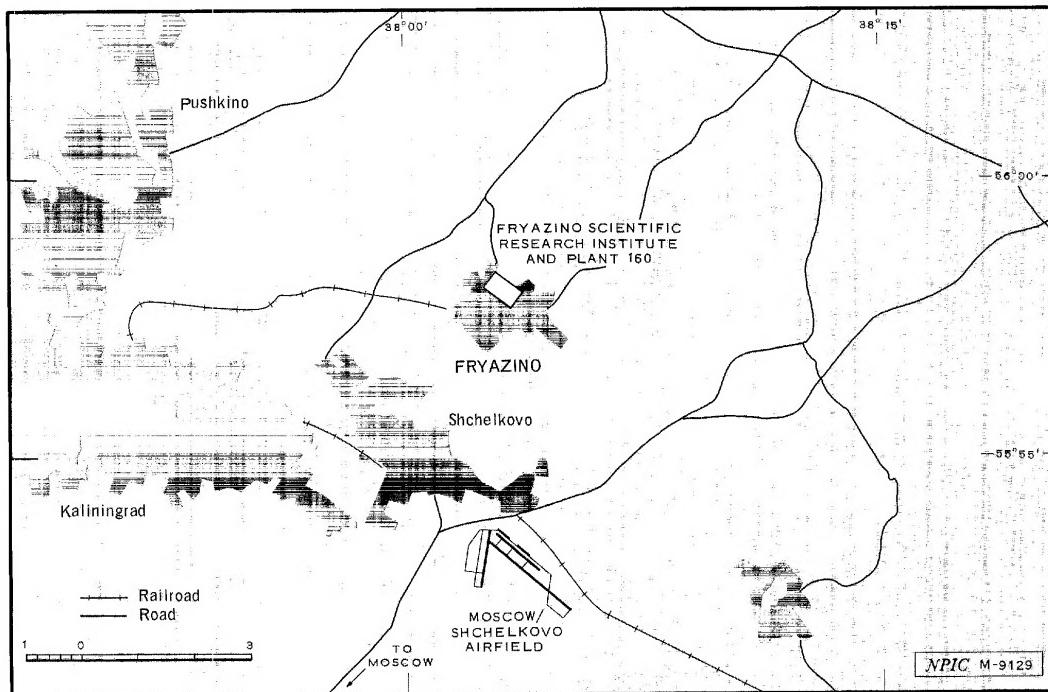


FIGURE 1. LOCATION MAP

BASIC DESCRIPTION

25X1D The Fryazino institute (Figures 2 and 3) comprises three functional areas (Areas I through III) and an associated area (Area IV). Area I contains the institute buildings first observed in KEYHOLE photography of [redacted] including facilities such as administration and laboratory buildings, warehouses, shop buildings, and numerous utility buildings. Area II contains engineering buildings with several small ancillary buildings.

25X1D Area III contains a possible test facility which occupies a large rectangular area in the northeastern section of the complex. This facility consists of a section of the track [redacted]

25X1D [redacted] utility-type buildings are located along the three sections of track. A test tower [redacted]

25X1D [redacted] is evident in the center of the test area. Although the precise function of this facility has not been determined, it could be used for electronic testing of systems developed or produced at the institute.

Area IV is located on the east side of the complex. The function of this separately secured area is undetermined, but its location suggests a relationship with the institute. This area covers approximately 91 acres and contains one administration building, four laboratories, three shop buildings, one assembly building, six warehouses, and five utility structures.

Chronology

According to collateral information, the institute originated in 1946. It was built on a site previously occupied by a textile mill and a POW camp. The mill, remodeled in 1945-46 by POWs, served as the initial electronics laboratory of the institute complex.¹

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25X1D [redacted]

25X1D [redacted] the Fryazino institute included four assembly buildings, at least two shop buildings, three warehouses, an administration building, at least three laboratory buildings, and numerous utility structures. The associated area (Area IV) consisted of four completed buildings, a laboratory, two warehouses, and a utility building.

25X1D [redacted]

New construction consisted of a large assembly/engineering building (item 29, Figure 2) and a utility building (item 48) in Area I, and two engineering buildings (items 2 and 3) in Area II. In Area IV, construction had progressed very rapidly. The buildings constructed during this time consisted of two laboratories (items 81 and 86), the administration building (item 91), the assembly building (item 89), two warehouses (items 78 and 79), one shop building (item 74), and three utility buildings (items 82-84).

25X1D [redacted]

Construction in Area I was limited during this time; two warehouses (items 30 and 31) were under construction in the west corner. A security fence/wall was erected around Area II, linking it with Areas I and III. Construction was begun on the test tower located near the center of the possible electronics facility in Area III. In Area IV, a laboratory (item 75), a warehouse (item 76), and a utility building (item 80) were completed.

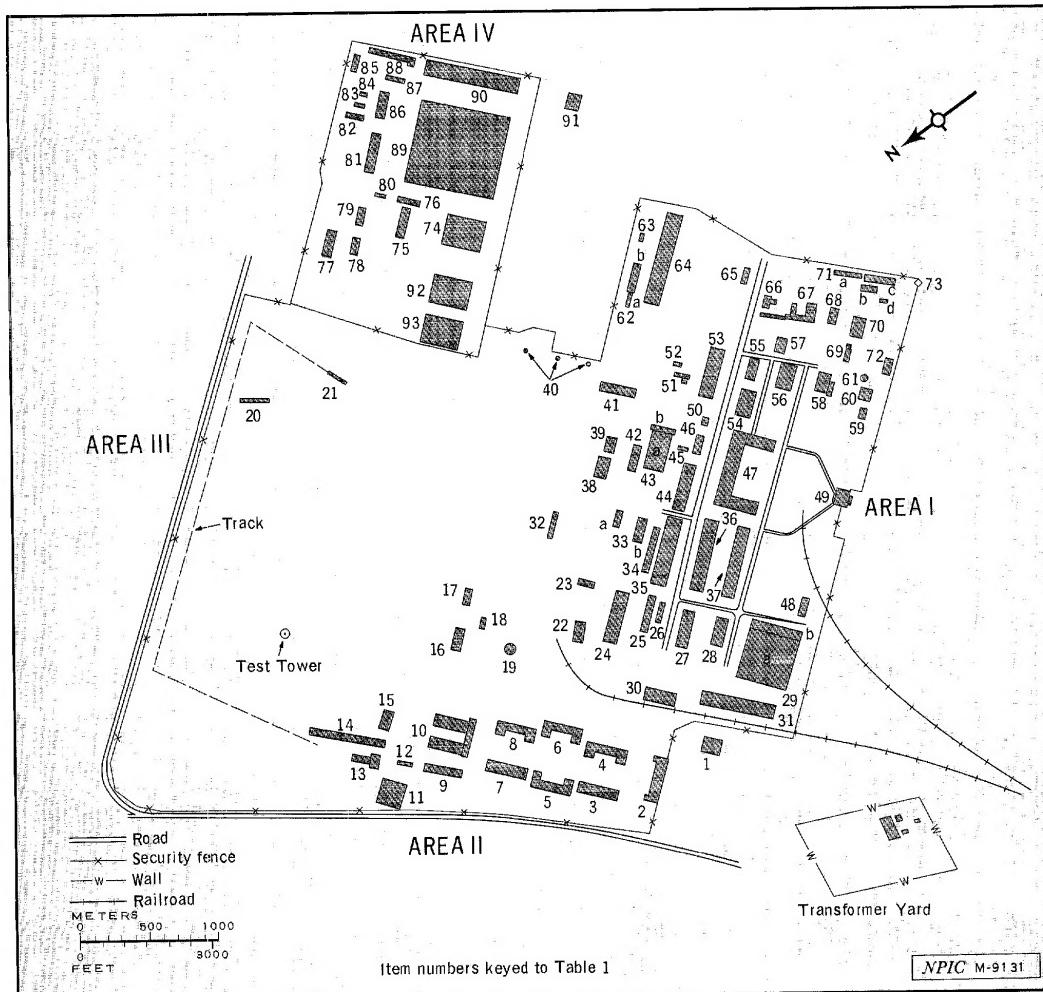


FIGURE 3. LINE DRAWING OF FRYAZINO INSTITUTE

25X1D [redacted]

Construction on the warehouses in Area I has been completed. In Area III the test tower has also been completed, and two probable laboratory buildings (items 20 and 21), which had been observed near the track [redacted]. In Area IV a warehouse (item 77) and two shop buildings (items 92 and 93) have been constructed. The security fence/wall surrounding this area was erected [redacted]

Essential Services

Transportation services at the institute are excellent. A series of all-weather roads encompasses the complex and provides passage to and from the institute through six control points. The complex is also served by a spur of the electrified Moscow-Yaroslavl rail line which enters the institute at two points. The Moscow/Shchelkovo Airfield is probably the main airshipment center for the facility. The institute also includes a motor pool (item 71) located in the southern corner of the complex.

A separately secured transformer yard at the western edge of the institute probably serves as a power source for the complex. The yard consists of a low and a high voltage area and four control buildings.

The institute is secured by a fence/wall. Access is provided by five secured road entrances and two secured rail entrances. Guard towers are not observed.

Table 1. Fryazino Scientific Research Institute and Plant 160 (Keyed to Figure 3)

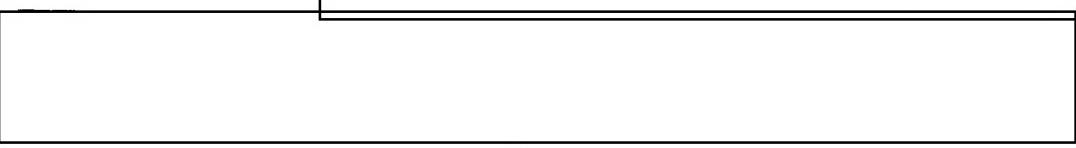
Item	Description
1	Utility bldg
2	Engineering bldg
3	Engineering bldg
4	Engineering bldg
5	Engineering bldg
6	Engineering bldg
7	Engineering bldg
8	Engineering bldg
9	Warehouse
10	Laboratory
11	Warehouse
12	Utility bldg
13	Laboratory
14	Laboratory
15	Laboratory
16	Utility bldg
17	Utility bldg
18	Utility bldg
19	Storage tank
20	Prob laboratory bldg
21	Prob laboratory bldg
22	Utility bldg
23	Utility bldg
24	Shop bldg
25	Warehouse

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Item	Description
26	Warehouse
27	Shop bldg
28	Laboratory
29	Assembly/engineering bldg
a	assembly
b	engineering
30	Warehouse
31	Warehouse
32	Warehouse
33a	Warehouse
b	Warehouse
34	Warehouse
35	Warehouse
36	Shop bldg
37	Laboratory
38	Steamplant
39	Steamplant
40	Storage tanks (8)
41	Laboratory
42	Utility bldg
43 a	Engineering/shop bldg shop section
b	engineering section
44	Laboratory
45	Forced-draft cooling tower
46	Laboratory
47	Admin bldg
48	Utility bldg
49	Reception center
50	Utility bldg
51	Utility bldg
52	Utility bldg
53	Laboratory
54	Shop bldg
55	Utility bldg
56	Shop bldg
57	Shop bldg
58	Utility bldg
59	Utility bldg
60	Utility bldg

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Item	Description
61	Storage tank
62a	Warehouse
b	Warehouse
63	Utility bldg
64	Engineering bldg
65	Utility bldg
66	Utility bldg
67	Utility bldg
68	Utility bldg
69	Utility bldg
70	Utility bldg
71a	Motor pool
b	
c	
d	
72	Utility bldg
73	Security bldg
74	Shop bldg
75	Laboratory
76	Warehouse
77	Warehouse
78, 79	Warehouses
80	Utility bldg
81	Laboratory
82	Utility bldg
83	Utility bldg
84	Utility bldg
85	Warehouse
86	Laboratory
87	Utility bldg
88	Warehouse
89	Assembly bldg
90	Laboratory
91	Admin bldg
92	Shop bldg
93	Shop bldg



REFERENCES

25X1D

MAPS AND CHARTS

ACIC. USATC, Series 200, Sheet M0167-5, scale 1:200,000

DOCUMENT

1. CIA. S1 79-56, *Scientific Research Institute 160 (NII 160)*, Feb 56 (SECRET)

REQUIREMENT

25X1A

[Redacted]
NPIC Project 220707

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